



## Anti-virals

### LC/MS Compatible method for separation of Cold/Cough Medicine

Column: Polaris™ 5μ C18-A, 50 x 4.6  
Part nr.: A2000050X046  
Eluent: A: H<sub>2</sub>O + 0.1% TFA  
B: MeOH + 0.1% TFA  
Gradient: 10 to 95%B in 5 min  
Flow: 2.0 ml/min  
Detection: UV @ 214nm  
Sample:  
1. acetaminophen  
2. pseudoephedrine  
3. chlorpheniramine maleate  
3A. impurity in standards  
4. dextromethorphan  
5. unknown in formulation  
6. unknown in formulation

#### Composition of Cold Medication (Each 5 ml teaspoonful contains):

acetaminophen, 160 mg, pain reliever  
chlorpheniramine maleate, 1 mg, antihistamine  
dextromethorphan HBr, 7.5 mg, cough suppressant  
pseudoephedrine HCl, 15 mg, nasal decongestant

